

FIG. 1

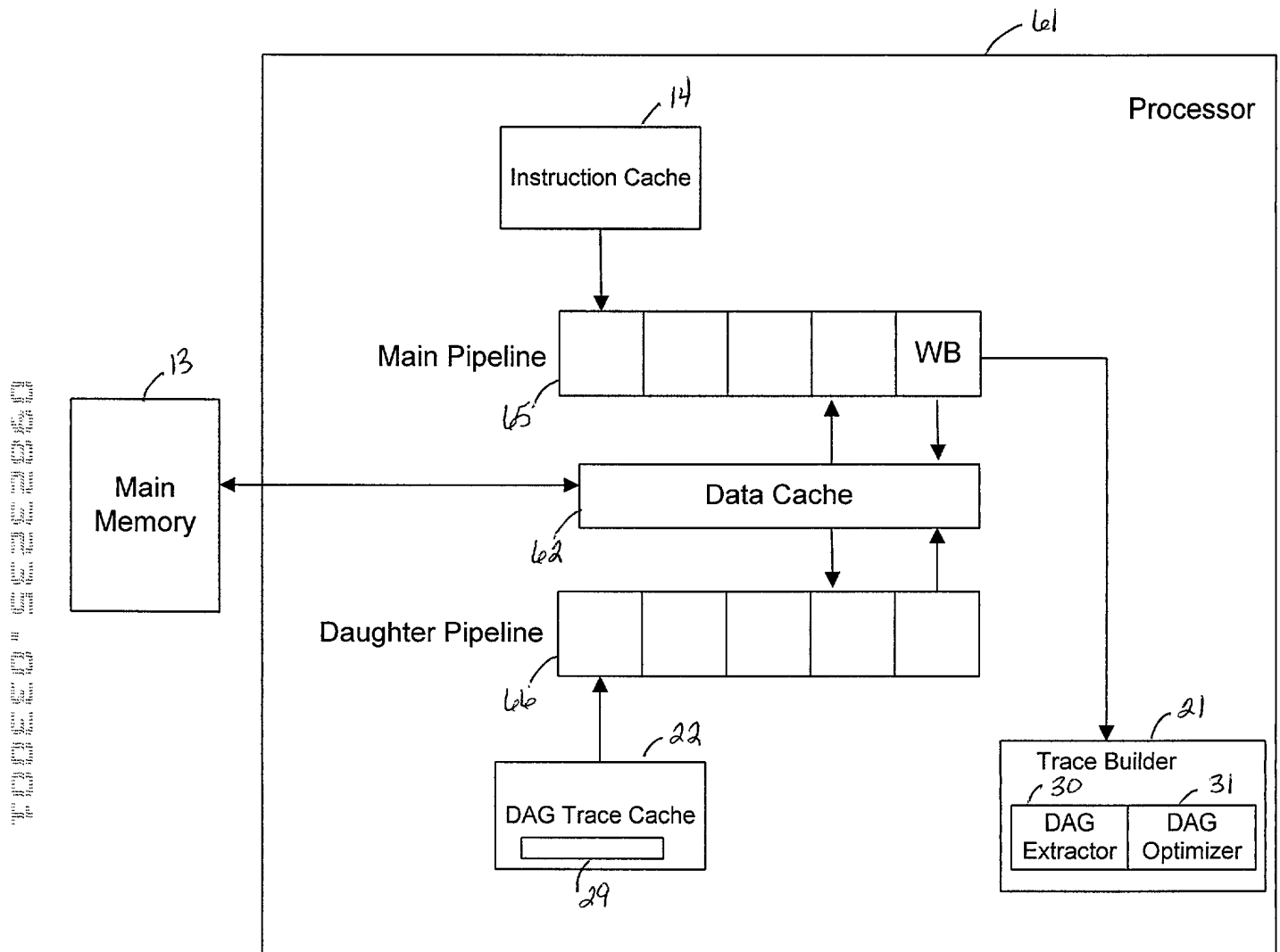


FIG. 2

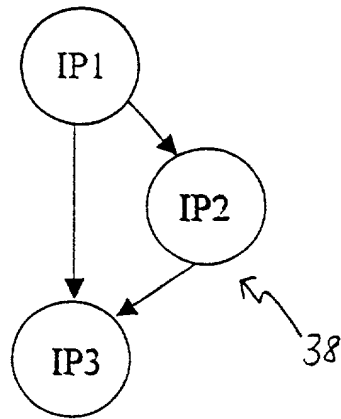


FIG. 3A

	310 LINE	311 IP/LINE	312 IP	313 P	314 C	315 Type
320	0	IP	IP1	0	1	--
	1	LINE	3	0	1	--
	2	LINE	6	0	0	--
	3	IP	IP2	1	0	--
	4	LINE	0	0	1	--
	5	LINE	6	0	0	--
	6	IP	IP3	1	0	--
	7	LINE	0	0	1	--
	8	LINE	3	0	0	--

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FIG. 3B

4/
HOT

Triggering condition	Count	Frequency Threshold	Confidence Metric	Criterion instruction	BOT ₄₂	EOT ₄₃
4/0	4/1	4/2	4/3	4/4		

FIG. 4

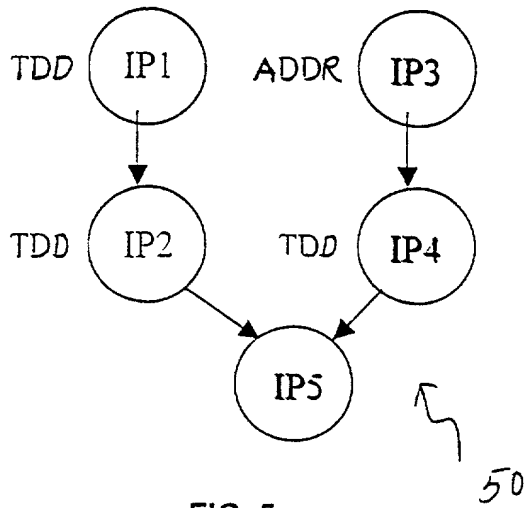


FIG. 5

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Function WalkAndClassifyDAG(Node N)
    Process(N, no_hint)
    Foreach Parent P of N
        WalkAndClassifyDAG(P)
    End Foreach
End Function

Function Process(Node N, Hint H)
    If H = ADDR Then
        If (N->type = TDD) Then
            N->type = ADDR
        End If
        Foreach Parent P of N
            Process(P, ADDR)
        End Foreach
    Else If N->instruction = LOAD Then
        N->Type = ADDR
        Foreach Parent P of N
            If P->output_operand = N->address_operand Then
                Process(P, ADDR)
            End If
        End Foreach
    Else If N->instruction = BRANCH Then
        N->Type = CF
    Else
        N->Type = TDD
    End If
End Function

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FIG. 6